

## PATENT ABSTRACTS OF JAPAN

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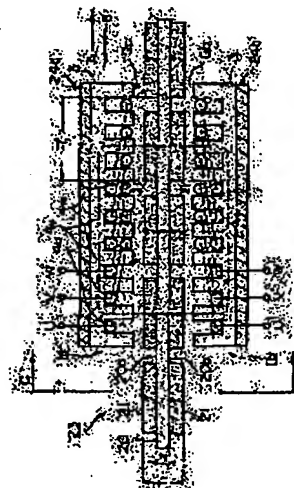
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## (54) LINEAR MOTOR

## (57)Abstract:

PURPOSE: To improve the efficiency of a linear motor by magnetizing the permanent magnets adjacent on the same surface of a magnetic plate of a plurality of permanent magnets in such away that the directions of the N- and S-poles are opposite to each other, and magnetizing the permanent magnets disposed through the magnetic plate in the same direction.

CONSTITUTION: Platelike permanent magnets 21 are magnetized on the upper and lower surfaces 20a, 20b of a long platelike magnetic plate 20 to construct a secondary side 23. The permanent magnets disposed adjacently on the same surface of the plate 20 of the magnets 21 are so magnetized that the directions of the N- and S-poles are directed reverse, and the magnets disposed symmetrically through the plate 20 are so magnetized that the directions of the N- and S-poles are the same. As a result, since the magnetic flux radiated from the magnet 21 is penetrated in the thicknesswise direction of the plate 20 for forming the secondary side 23, even if the thicknesswise size T2 is reduced, the saturation of the magnetic flux in the plate 20 is not generated to obtain an efficient thrust.



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